

13 392.4 83.3 483 12 RNY13337
14 279.8 59.4 665 12 RNY77777
15 279.2 59.3 471 13 ASIGIF
16 268.4 57.0 582 3 ECIGIF
17 254 53.9 534 3 AF173175
18 254 53.9 754 3 AF124789
19 247.8 52.6 471 5 E17135
20 247.8 52.6 579 91 HSU90434
21 247.8 52.6 1102 38 D49950
22 247.4 52.5 471 5 E13263
23 247.4 52.5 471 5 E15793
24 247.4 52.5 471 22 E12009
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26 247.4 52.5 579 5 E15603
27 247.4 52.5 1120 5 E14759
28 247.4 52.5 1120 5 E15641
29 247.4 52.5 1120 22 E11745
30 247 52.4 589 11 AF077611
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34 244.4 51.9 600 3 SSIGIF
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37 243 51.6 471 5 E17137
38 242.2 51.4 600 3 AF176949
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40 225 47.8 112150 53 AC025500
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42 127.8 27.1 11464 5 E17138
43 127.8 27.1 28994 5 E15653
44 127.8 27.1 161920 70 AP002502
45 127.8 27.1 165548 70 AP002007

ALIGNMENTS

RESULT 1
LOCUS AR072044 471 bp DNA PAT 18-FEB-2000
DEFINITION Sequence 1 from patent US 5912324.
ACCESSION AR072044
VERSION AR072044.1 GI:7222932
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 471)
AUTHORS Okamura,H., Tanimoto,T., Torigoe,K., Kunikata,T., Taniguchi,M.,
Kohno,K. and Kurimoto,M.
TITLE Interferon-gamma (IFN-gamma.) inducing factor (IGIF, IL-18)
JOURNAL Purified from murine liver
FEATURES
source Patent: US 5912324-A 1 15-JUN-1999;
Location/Qualifiers
1..471
BASE COUNT 162 a 91 c 92 g 125 t 1 others
ORIGIN

Query Match 99.9%; Score 470.6; DB 5; Length 471;
Best Local Similarity 100.0%; Pred. No. 1.3e-103;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACTTGGCCGACTCTACTGATACACCGAGTAATACGGAATATAATGACCAAGTTCTC 60
DB 1 AACTTGGCCGACTCTACTGATACACCGAGTAATACGGAATATAATGACCAAGTTCTC 60
QY 61 TTGGTGAACAAGAGACAGCGCTGTGTCGAGATATACATCATGATTAAGTGCACAT 120
DB 61 TTGGTGAACAAGAGACAGCGCTGTGTCGAGATATACATCATGATTAAGTGCACAT 120

QY 121 GAACCCACAGCAGACTGATATATATCATGTCACAAAGACAGTGAAGTACGACTGCT 180
DB 121 GAACCCACAGCAGACTGATATATATCATGTCACAAAGACAGTGAAGTACGACTGCT 180
QY 181 GTACCCCTCTGTGAAGTAGTAAAGTGTACCCCTCTGTGAAGTAAAGTTCAT 240
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QY 241 TCCCTTGAAGAAATGATGATCAGTGAATATGATATATCAAAAGTATCTATATTC 300
DB 241 TCCCTTGAAGAAATGATGATCAGTGAATATGATATATCAAAAGTATCTATATTC 300
QY 301 TTTCAGAAACGTTTCAGAGACACAAAGATGAGATTTGATCTTCATGTAGAGGA 360
DB 301 TTTCAGAAACGTTTCAGAGACACAAAGATGAGATTTGATCTTCATGTAGAGGA 360
QY 361 CACTTCTGCTTGCACAAAGAGATGATGCTTTCACAACTCATCTGAAAAAAGAT 420
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QY 421 GAAATGGGATTAATCTGTAAATGTTCACTCTCACTAATCAATCAAGT 471
DB 421 GAAATGGGATTAATCTGTAAATGTTCACTCTCACTAATCAATCAAGT 471

RESULT 2
LOCUS E13264 471 bp DNA PAT 24-JUN-1998
DEFINITION Mouse cDNA encoding a protein that induces to produce
interferon-gamma.
ACCESSION E13264
VERSION E13264.1 GI:3252069
KEYWORDS JP 1997157180-A/2.
SOURCE Mus sp.
ORGANISM Mus sp.
REFERENCE 1 (bases 1 to 471)
AUTHORS Torigoe,K., Tanimoto,T., Fukuda,S. and Kurimoto,M.
TITLE AGENT FOR SENSITIVE DISEASE
JOURNAL Patent: JP 1997157180-A 2 17-JUN-1997;
HAYASHIBARA BIOCHEM LAB INC
COMMENT OS Mus sp. (mouse)
PN JP 1997157180-A/2
PD 17-JUN-1997
PR 24-JAN-1996 JP 1996028722
PR 10-MAR-1995 JP 95P 78357, 29-SEP-1995 JP 95P 274988, PR
04-OCT-1995 JP 95P 279906
PI TORIGOE KAKUJI, TANIMOTO TADAO, FUKUDA SHIGETSU, PI
KURIMOTO MASASHI
PC A61K38/00,A61K38/00,A61K38/00,A61K38/00,C07K14/52,
PC C07K14/54,
PC C07K14/55;
CC strandedness: Double;
CC topology: Linear;
CC Feature is identified by similarity;
FH key Location/Qualifiers
FH source 1..471
FT /organism='Mus sp.'
FT /tissue_type='liver'
FT mat_peptide 1..471
FT /product='interferon-gamma inducer protein'.
FT Location/Qualifiers
1..471
BASE COUNT 162 a 91 c 92 g 125 t 1 others
ORIGIN

Query Match 99.9%; Score 470.6; DB 5; Length 471;
Best Local Similarity 100.0%; Pred. No. 1.3e-103;

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Matches 471: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACTTGGCCGACTTCACTGATACACCGAGTAATACGAAATTAATGACCAAGTCTC 60
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Db 1 AACTTGGCCGACTTCACTGATACACCGAGTAATACGAAATTAATGACCAAGTCTC 60
QY 61 TTGCTTGACAAAAGACAGCTGTGTTCCAGATATGACTATATTTATTAAGTCCAGT 120
    |||
Db 61 TTGCTTGACAAAAGACAGCTGTGTTCCAGATATGACTATATTTATTAAGTCCAGT 120
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Db 241 TCCCTTGAGAAATGATGATCCACCTGAAATATGATGATATACAAAGTATGATATTC 300
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QY 361 CACTTCTGCTTGGCAAAAGAGATGATGCTTCAACTCATTCGAAAAAAGAGAT 420
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Db 361 CACTTCTGCTTGGCAAAAGAGATGATGCTTCAACTCATTCGAAAAAAGAGAT 420
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Db 421 GAAATATGGGATTAATCTGATATGTTCTACTCTCACTTAACCTTAACCAAGT 471

RESULT 3
E14257 471 bp DNA PAT 28-JUL-1999
LOCUS CDNA encoding mouse interferon gamma-inducing factor.
DEFINITION E14257
ACCESSION E14257.1 GI:5708940
VERSION JP 1997289896-A/1.
KEYWORDS Mus sp.
SOURCE Mus sp.
ORGANISM Mus sp.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
AUTHORS Butcheria; Rodentia; Sciurognathii; Muridae; Murinae; Mus.
TITLE Akita,K., Nukada,Y., Fujii,M., Tanimoto,T. and Kurimoto,M.
JOURNAL PROTEIN FOR INDUCING PRODUCTION OF INTERFERON-GAMMA IN
IMMUNOCOMPETENT CELLS
Patent: JP 1997289896-A 11-NOV-1997;
HAYASHIBARA BIOCHEM LAB INC
COMMENT OS Mus sp. (mouse)
PN JP 1997289896-A/1
PD 11-NOV-1997
PE 20-SEP-1996 JP 1996269105
PF 26-SEP-1995 JP 95P 270725, 29-FEB-1996 JP 96P 67434 PI
AKITA KENJI, NUKADA YOSHIYUKI, FUJII MITSUKIYO, TANIMOTO TADAO, PI
KURIMOTO MASASHI
PC C12P21/02.A61K9/06.A61K38/00.A61K38/00.A61K38/00.A61K38/00, PC
A61K38/00,
PC A61K38/00.A61K38/00.C07K14/47.(C12P21/02.C12R1:91): CC
strandedness: double;
CC topology: linear;
CC hypothetical: No;
CC anti-sense: No;
FH key Location/Qualifiers
FT source 1..471
FT /organism="Mus sp."
FT /tissue-type="liver"
FT 1..471
FT /product="mouse interferon gamma-inducing FT

FEATURES
source Location/Qualifiers
BASE COUNT 162 a 91 c 92 g 125 t 1 others
ORIGIN
Query Match 99.98; Score 470.6; DB 5; Length 471;
Best Local Similarity 100.0%; Pred No. 13e-103; Indels 0; Gaps 0;
Matches 471: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACTTGGCCGACTTCACTGATACACCGAGTAATACGAAATTAATGACCAAGTCTC 60
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Db 1 AACTTGGCCGACTTCACTGATACACCGAGTAATACGAAATTAATGACCAAGTCTC 60
QY 61 TTGCTTGACAAAAGACAGCTGTGTTCCAGATATGACTATATTTATTAAGTCCAGT 120
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Db 61 TTGCTTGACAAAAGACAGCTGTGTTCCAGATATGACTATATTTATTAAGTCCAGT 120
QY 121 GAACCCGACAGACAGTATATATACATGATACAAAGACAGTAAGAGAGAGTGGCT 180
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Db 121 GAACCCGACAGACAGTATATATACATGATACAAAGACAGTAAGAGAGAGTGGCT 180
QY 181 GTGACCCCTCTCTGTGAAGATAGTAAATATGCTACCTCTCTCTGAAGAACAGATCAT 240
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Db 181 GTGACCCCTCTCTGTGAAGATAGTAAATATGCTACCTCTCTCTGAAGAACAGATCAT 240
QY 241 TCCCTTGAGAAATGATGATCCACCTGAAATATGATGATATACAAAGTATGATATTC 300
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Db 241 TCCCTTGAGAAATGATGATCCACCTGAAATATGATGATATACAAAGTATGATATTC 300
QY 301 TTTCAGAAACGTGTTCCAGACACACAGATGAGTTGATCTTCACTGATGATGAGA 360
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Db 301 TTTCAGAAACGTGTTCCAGACACACAGATGAGTTGATCTTCACTGATGATGAGA 360
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Db 421 GAAATATGGGATTAATCTGATATGTTCTACTCTCACTTAACCTTAACCAAGT 471

RESULT 4
E14760 471 bp DNA PAT 28-JUL-1999
LOCUS CDNA encoding polypeptide which induces interferon gamma production
DEFINITION E14760
ACCESSION E14760
VERSION E14760.1 GI:5709443
KEYWORDS JP 1998007699-A/2.
SOURCE Mus sp.
ORGANISM Mus sp.
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
AUTHORS Butcheria; Rodentia; Sciurognathii; Muridae; Murinae; Mus.
TITLE Ushio,S., Torigoe,K., Tanimoto,T., Okamura,H. and Kurimoto,M.
JOURNAL POLYPEPTIDE INDUCING PRODUCTION OF INTERFERON-GAMMA
Patent: JP 1998007699-A 13-JUN-1998;
HAYASHIBARA BIOCHEM LAB INC
COMMENT OS Mus sp. (mouse)
PN JP 1998007699-A/2
PD 13-JAN-1998
PE 18-SEP-1995 JP 1997058547
PF 15-NOV-1994 JP 94P 304203
PI USHIO SHINPEI, TORIGOE KAKUJI, TANIMOTO TADAO, OKAMURA HARUKI,
KURIMOTO MASASHI
PC C07K14/52.C07H21/04.C12N1/21.C12N15/09.C12P21/02//A61K38/00,
PC C12N1/21,
PC C12R1:19).(C12P21/02.C12R1:19);

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CC strandedness: Double;
 CC topology: Linear;
 CC hypothetical: No;
 CC anti-sense: No;
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 FT /organism="Mus sp."
 FT /db_xref="taxon:10095"
 FT /tissue_type="liver".

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BASE COUNT 162 a 91 c 92 g 125 t 1 others
 ORIGIN

Query Match 99.9%; Score 470.6; DB 5; Length 471;
 Best Local Similarity 100.0%; Pred. No. 1.3e-103;
 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACTTGGCGGACTCTGCTACACCGGAGTAAATGAGATTAATGACCAAGTTCTC 60
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 QY 301 TTTCAGAAAGCTGTTCAGAGACACAAAGATGAGAGTTGAATCTTCACTGATGAAGA 360
 Db 301 TTTCAGAAAGCTGTTCAGAGACACAAAGATGAGAGTTGAATCTTCACTGATGAAGA 360
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RESULT 5
 E17139 471 bp DNA PAT 28-JUL-1999
 LOCUS Murine mRNA for interleukin-18 (IL-18).
 DEFINITION E17139
 ACCESSION E17139
 VERSION E17139.1 GI:5711822
 KEYWORDS JP 1998236974-A/5.
 SOURCE Mus sp.
 ORGANISM Mus sp.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 471)
 AUTHORS Mathew,T.G., Nicholl,J.H., Udagawa,N. and Kurimoto,M..
 TITLE OSTEOCLAST-FORMATION INHIBITOR
 JOURNAL Patent: JP 1998236974-A 08-SEP-1998;
 HAYASHIBARA BIOCHEM LAB INC
 COMMENT OS Mus sp. (mouse)
 PN JP 1998236974-A/5
 PD 08-SEP-1998

PF 25-FEB-1997 JP 1997055468
 PI MATTHEW TODD GALSPER, NICHOLL JOY HOOMOOD, UDAGAWA NOBUYUKI,
 PI KURIMOTO MASASHI
 PC A61K38/00,A61K38/00//C07K14/54,C12N15/09;
 CC topology: Double;
 CC strandedness: Linear;
 FH key Location/Qualifiers
 FT source 1..471
 FT /organism="Mus sp."
 FT /db_xref="taxon:10095"
 FT /tissue_type="liver"
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BASE COUNT 162 a 91 c 92 g 126 t
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Query Match 99.9%; Score 470.6; DB 5; Length 471;
 Best Local Similarity 99.8%; Pred. No. 1.3e-103;
 Matches 470; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACTTGGCGGACTCTGCTACACCGGAGTAAATGAGATTAATGACCAAGTTCTC 60
 Db 1 AACTTGGCGGACTCTGCTACACCGGAGTAAATGAGATTAATGACCAAGTTCTC 60
 QY 61 TTGCTTGACAAAGACAGCCTGTGTCGAGATATGATGATGATCAAAAGTCCAGT 120
 Db 61 TTGCTTGACAAAGACAGCCTGTGTCGAGATATGATGATGATCAAAAGTCCAGT 120
 QY 121 GAACCCGACGACAGCTGATATATACATGTACAAAGACAGTGAAGTAAAGAGCTGGCT 180
 Db 121 GAACCCGACGACAGCTGATATATACATGTACAAAGACAGTGAAGTAAAGAGCTGGCT 180
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 Db 181 GTGACCCCTCTGTGTAAGATTAATAAAGTCTACCTCTCCGTGAAGAACAGATCAT 240
 QY 241 TCCTTTGAGGAATGATGATCACTGAAATATATGATATACAAAGTATCATATTC 300
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 QY 301 TTTCAGAAAGCTGTTCAGAGACACAAAGATGAGAGTTGAATCTTCACTGATGAAGA 360
 Db 301 TTTCAGAAAGCTGTTCAGAGACACAAAGATGAGAGTTGAATCTTCACTGATGAAGA 360
 QY 361 CACTTCTCTGCTGCGCAAAAGAGATGATGCTTCAAACTCATCTGAAAAAAGGAT 420
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 QY 421 GAAATGGGATTAATCTGTAATGTTCACTCTCACTCACTCACTCACTCACTCACTCACT 471
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RESULT 6
 E10609 standard; RNA; ROD; 471 BP.
 ID E10609
 XX E10609;
 AC E10609.1
 SV E10609.1
 XX
 XX 08-OCT-1997 (Rel. 52, Created)
 DT 08-OCT-1997 (Rel. 52, Last updated, Version 1)
 XX
 DE Mouse cDNA encoding a protein involved in interferon-gamma production.
 XX
 KW JP 1996027189-A/1.
 XX

| | | |
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| OS | Mus sp. | Chordata; Mammalia; Mus. |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | |
| XX | [1] | |
| RN | 1-471 | |
| RP | Okamura H., Tanimoto T., Torigoe K., Kurimoto M.; | |
| RA | "PROTEIN INDUCING PRODUCTION OF INTERFERON-GAMMA"; | |
| RT | Patent number JP 1996027189-A/1, 30-JAN-1996. | |
| RL | HAYASHIBARA BIOCHEM LAB INC. | |
| XX | | |
| CC | Mus sp. (mouse) | |
| CC | JP 1996027189-A/1 | |
| CC | 30-JAN-1996 | |
| CC | 14-JUL-1994 JP 1994184162 | |
| CC | OKAMURA HARUKI, TANIMOTO TADAO, TORIGOE KAKUJI, | |
| CC | KURIMOTO MASASHI | |
| CC | C07K14/52, A61K38/00, C12N1/21, C12M15/09, | |
| CC | C12P21/02//C07K14/57; | |
| CC | strandedness: Double; | |
| CC | topology: Linear; | |
| CC | key | |
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| CC | interferon-gamma | |
| CC | production" | |
| CC | FT | |
| XX | | |
| XX | key | |
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| XX | /db_xref="taxon:10095" | |
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| Query Match | 99.98; Score 470.6; DB 22; Length 471; | |
| Best Local Similarity | 100.0%; Pred. No. 1.3e-103; Indels 0; Gaps 0; | |
| Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
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| DB | 1 | AACTTTGGCGGACTTCACCTGATACACCGGAGTAATACGGAATTAATGACCAAGTCTGC 60 |
| OY | 61 | TTTCGTGACAAAAGACAGCTGTGTTCGAGGATATGACTGATATTTGATCAAAAGTCCAGT 120 |
| DB | 61 | TTTCGTGACAAAAGACAGCTGTGTTCGAGGATATGACTGATATTTGATCAAAAGTCCAGT 120 |
| OY | 121 | GAACCCCAACAGCAGTATATATACATGTCACAAAGACAGTAAAGAGAGAGTGGCT 180 |
| DB | 121 | GAACCCCAACAGCAGTATATATACATGTCACAAAGACAGTAAAGAGAGAGTGGCT 180 |
| OY | 181 | GTGACCTCTCTGTGAAGATAGTAAATATGTCACCTCTCTCTGTGAAGACAGTCAAT 240 |
| DB | 181 | GTGACCTCTCTGTGAAGATAGTAAATATGTCACCTCTCTCTGTGAAGACAGTCAAT 240 |
| OY | 241 | TTCCTTTGAGGAATGATCCACCTGAAATATTTGATGATATACAAAGATGATCTCATATTC 300 |
| DB | 241 | TTCCTTTGAGGAATGATCCACCTGAAATATTTGATGATATACAAAGATGATCTCATATTC 300 |
| OY | 301 | TTTTCAGAAAGCTGTTCAGACACAAACAGATGAGATTTGATATCTTCACTGTATGAAAGA 360 |
| DB | 301 | TTTTCAGAAAGCTGTTCAGACACAAACAGATGAGATTTGATATCTTCACTGTATGAAAGA 360 |
| OY | 361 | CACCTTCTGTGCTGGCAAAAGAGATGATGCTTTCAAACTCATTTCTGAAAAAAGAGAT 420 |
| DB | 361 | CACCTTCTGTGCTGGCAAAAGAGATGATGCTTTCAAACTCATTTCTGAAAAAAGAGAT 420 |
| OY | 421 | GAATAGGGGATTAATCTGTATATTTCACTCTCACTAATTTACATTAAGT 471 |

Db 121 GAACCCAGACAGACAGATATATACATGTACAAAGACAGTGAAGTAAAGAGACTGGCT 180
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 Db 181 GTGACCCCTCTGTGTAAGGATAGTAAAYGTCTACCCCTCTCTGTGAAGAACATCATTT 240
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 QY 301 TTTTCGAAACGTTGTCAGACACACAAAGATGAGATTGATGATCTTCACCTGATGAAGA 360
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 QY 361 CACTTTCTTGCTGCGCAAGAGATGATGCTTTCAACACTCATTCGAAAAAAGAGAT 420
 Db 361 CACTTTCTTGCTGCGCAAGAGATGATGCTTTCAACACTCATTCGAAAAAAGAGAT 420
 QY 421 GAAAAATGGGATTAATCTGTAATGTTCACTCTCACTCACTTACATCAAAAGT 471
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RESULT 8
 E12010 standard; RNA; ROD: 471 BP.

AC E12010;
 XX E12010.1
 DT 07-OCT-1997 (Rel. 52, Created)
 DT 07-OCT-1997 (Rel. 52, Last updated, Version 1)
 XX
 DE cDNA encoding mouse polypeptide which introduce interferon-gamma product in
 DE Immunocompetent cell.
 XX
 JW JP 1996231598-A/2.

OS Mus musculus (house mouse)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
 OC Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 XX
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 RP Kunikida T., Taniguchi M., Kono K., Kurimoto M.;
 RA "MONOCLONAL ANTIBODY";
 RL Patent number JP 1996231598-A/2, 10-SEP-1996.
 RL HAYASHIBARA BIOCHEM LAB INC.

OS Mus musculus (mouse)
 CC PN JP 1996231598-A/2
 CC PD 10-SEP-1996
 CC PF 23-FEB-1995 JP 1995058240
 CC PI KUNIKIDA TOSHIO, TANIGUCHI MITSUKO, KONO KEIZO,
 CC KURIMOTO MASASHI
 CC PC C07K16/24, C07K1/16, C07K1/18, C07K1/22, C07K1/26, C07K1/30,
 CC C07K1/34, C12N5/10,
 CC PC C12M15/02, C12P21/08, G01N33/53, G01N33/577//A61K38/21, A61K39/395,
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 CC PC C12R1:91);
 CC CC strandedness: Double;
 CC CC topology: Linear;
 CC CC hypothetical: No;
 CC CC anti-sense: No;
 CC FH Key
 CC FH Location/Qualifiers
 CC FT source
 CC FT 1..471
 CC FT /organism="Mus musculus"
 CC FT /tissue_type="liver"
 CC XX
 FH Key
 FH Location/Qualifiers

FT source 1..471
 FT /db_xref="taxon:10090"
 FT /organism="Mus musculus"
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 SO Sequence 471 BP; 162 A; 91 C; 92 G; 125 T; 1 other;

Query Match 99.9%; Score 470.6; DB 22; Length 471;
 Best Local Similarity 100.0%; Pred. No. 1.3e-103;
 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACTTGGCCGACTTGCATCTACATCAACCGCAGTATACGAAATTAATACCAAGTTCTC 60
 Db 1 AACTTGGCCGACTTGCATCTACATCAACCGCAGTATACGAAATTAATACCAAGTTCTC 60
 QY 61 TTGCTTGACAAAAGACAGCCCTGTTTCAGAGATGATGATGATATGATCAAAAGTCCAGT 120
 Db 61 TTGCTTGACAAAAGACAGCCCTGTTTCAGAGATGATGATGATATGATCAAAAGTCCAGT 120
 QY 121 GAACCCAGACAGACAGTGAATATATACATGATACAAAGACAGTGAAGTAAAGAGACTGGCT 180
 Db 121 GAACCCAGACAGACAGTGAATATATACATGATACAAAGACAGTGAAGTAAAGAGACTGGCT 180
 QY 181 GTGACCCCTCTGTGTAAGGATAGTAAAYGTCTACCCCTCTCTGTGAAGAACATCATTT 240
 Db 181 GTGACCCCTCTGTGTAAGGATAGTAAAYGTCTACCCCTCTCTGTGAAGAACATCATTT 240
 QY 241 TCCCTTGAGGAATGATGATCCACCTGAAATATTTGATGATATACAAAGTATCTCATATTC 300
 Db 241 TCCCTTGAGGAATGATGATCCACCTGAAATATTTGATGATATACAAAGTATCTCATATTC 300
 QY 301 TTTTCGAAACGTTGTCAGACACACAAAGATGAGATTGATGATCTTCACCTGATGAAGA 360
 Db 301 TTTTCGAAACGTTGTCAGACACACAAAGATGAGATTGATGATCTTCACCTGATGAAGA 360
 QY 361 CACTTTCTTGCTGCGCAAGAGATGATGCTTTCAACACTCATTCGAAAAAAGAGAT 420
 Db 361 CACTTTCTTGCTGCGCAAGAGATGATGCTTTCAACACTCATTCGAAAAAAGAGAT 420
 QY 421 GAAAAATGGGATTAATCTGTAATGTTCACTCTCACTCACTTACATCAAAAGT 471
 Db 421 GAAAAATGGGATTAATCTGTAATGTTCACTCTCACTCACTTACATCAAAAGT 471

RESULT 9

MUSIGIFPP 866 bp mRNA ROD 10-FEB-1999
 LOCUS Mouse mRNA for IGIF precursor polypeptide, complete cds.
 DEFINITION
 ACCESSION D49949
 VERSION D49949.1 GI:1064822

KEYWORDS IGIF precursor polypeptide.
 SOURCE Mus musculus liver cDNA to mRNA, clone pMUCF37B-5.
 ORGANISM Mus musculus

REFERENCE
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 866)

AUTHORS
 TITLE
 JOURNAL
 Okamura, H.
 Direct Submission
 Submitted (29-MAR-1995) to the DDBJ/EMBL/GenBank databases. Haruki
 Okamura, Hyogo College of Medicine, Department of Bacteriology;
 Mukogawa 1-1, Nishinomiya, Hyogo 663, Japan (Tel:0798-45-6111)
 2 (bases 1 to 866)

REFERENCE
 Okamura, H., Tsutsumi, H., Komatsu, T., Yutsudo, M., Hakura, A.,
 Tanimoto, T., Torigoe, K., Okura, T., Nakada, T., Hattori, K., Akita, K.,
 Namba, M., Tanabe, F., Konishi, K., Fukuda, S. and Kurimoto, M.
 Cloning of a new cytokine that induces IFN-gamma production by T
 cells

JOURNAL Nature 378 (5552), 88-91 (1995)
 MEDLINE 96061009
 FEATURES
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 Location/Qualifiers
 1..866
 /organism="Mus musculus"
 /db_xref="taxon:10090"

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 CDS
 /tissue_type="liver"
 1. 866
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 /translation="MAAISEDSCVNFKEMFIDNTLYFIPENGDLSEDFGLHCTT
 AVIRINDOVLFDKROPVDFEDMTDIDQASAPOTRLIYKDSFVGLAVTLVSKD
 SKMSTLSCNKKIISFEEMDPENIDIOSDLIFPKRVGPHNKMFEPSLYEGHFLAC
 OKEDDAFKLILKKDENGDKSVMTLNLHQ5"
 polyA-site 866
 BASE COUNT 262 a 187 c 187 g 230 t
 ORIGIN
 Query Match 99.9%; Score 470.6; DB 12; Length 866;
 Best Local Similarity 99.8%; Pred. No. 1.3e-103;
 Matches 470; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AACTTGGCCGACTTCACTGTACACCCGAGTAATACGATTAATTAATGACCAAGTTCTC 60
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 DB 270 AACTTGGCCGACTTCACTGTACACCCGAGTAATACGATTAATTAATGACCAAGTTCTC 329
 QY 61 TTTCGTTGACAAAAGACAGCCCTGTGTTGAGAGATGACTGATTAATGATCAAGTCCAGT 120
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 DB 330 TTTCGTTGACAAAAGACAGCCCTGTGTTGAGAGATGACTGATTAATGATCAAGTCCAGT 389
 QY 121 GAACCCGACAGACAGTATATATATACATGTACAAAGACAGTGAAGTAAGAGAGTGGCT 180
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 DB 390 GAACCCGACAGACAGTATATATATACATGTACAAAGACAGTGAAGTAAGAGAGTGGCT 449
 QY 181 GTGACCCCTCTGTGAGAGATAGTAATTAATGATGACCCCTCTCTGTGAAGACAGATCAT 240
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 DB 430 GTGACCCCTCTGTGAGAGATAGTAATTAATGATGACCCCTCTCTGTGAAGACAGATCAT 509
 QY 241 TCCTTTGAGAAATGATGATCCAGTAAATATGATGATTAATGATTAATGATTAATGAT 300
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 DB 510 TCCTTTGAGAAATGATGATCCAGTAAATATGATGATTAATGATTAATGATTAATGAT 569
 QY 301 TTTCAGAAACGTGTCCAGGACACACACAGATGAGTGTGATCTTCACTGTATGAAGA 360
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 DB 570 TTTCAGAAACGTGTGTCCAGGACACACACAGATGAGTGTGATCTTCACTGTATGAAGA 629
 QY 361 CACTTCTTGTGCTGCAAAAGAGATGATGCTTTCAAACTCATTTGAAAAAAGAGAT 420
 |||||||
 DB 630 CACTTCTTGTGCTGCAAAAGAGATGATGCTTTCAAACTCATTTGAAAAAAGAGAT 689
 QY 421 GAAATGGGATTAATCTGTAATGTTCACTCTCAGTAACCTTACATCAAAAGT 471
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 DB 690 GAAATGGGATTAATCTGTAATGTTCACTCTCAGTAACCTTACATCAAAAGT 740
 RESULT 10
 MM066244 572 bp mRNA ROD 18-MAR-1997
 LOCUS MM066244
 DEFINITION Mus musculus interferon-gamma inducing factor mRNA, partial cds.
 ACCESSION U66244
 VERSION U66244.1 GI:1561735
 KEYWORDS
 SOURCE house mouse.
 ORGANISM Mus musculus.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 572)
 Rothe,H., Jenkins,N.A., Copeland,N.G. and Kolb,H.
 Active stage of autoimmune diabetes is associated with the
 expression of a novel cytokine, IGIF, which is located near Id2
 J. Clin. Invest. 99 (3), 469-474 (1997)
 JOURNAL 97174346
 MEDLINE
 REFERENCE 2 (bases 1 to 572)
 Rothe,H., Copeland,N.G. and Kolb,H.

TITLE Direct Submission
 JOURNAL Submitted (06-AUG-1996) Diabetes Research Institute, Aufm
 Hennekamp 65, Dueseldorf 40225, Germany
 FEATURES
 source
 1. 572
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 /strain="non obese diabetic (NOD)"
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 /chromosome="9"
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 /codon_start=1
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 /db_xref="GI:1561736"
 /translation="MAAISEDSCVNFKEMFIDNTLYFIPENGDLSEDFGLHCTT
 AVIRINDOVLFDKROPVDFEDMTDIDQASAPOTRLIYKDSFVGLAVTLVSKD
 SKMSTLSCNKKIISFEEMDPENIDIOSDLIFPKRVGPHNKMFEPSLYEGHFLAC
 OKEDDAFKLILKKDENGDKSVISLNLHQ5"
 CDS
 BASE COUNT 196 a 111 c 113 g 152 t
 ORIGIN
 Query Match 96.0%; Score 452; DB 12; Length 572;
 Best Local Similarity 98.9%; Pred. No. 3.9e-99;
 Matches 465; Conservative 1; Mismatches 1; Indels 3; Gaps 1;
 QY 1 AACTTGGCCGACTTCACTGTACACCCGAGTAAATACGATTAATTAATGACCAAGTTCTC 60
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 DB 106 AACTTGGCCGACTTCACTGTACACCCGAGTAAATACGATTAATTAATGACCAAGTTCTC 165
 QY 61 TTTCGTTGACAAAAGACAGCCCTGTGTTGAGAGATGACTGATTAATGATCAAGTCCAGT 120
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 DB 166 TTTCGTTGACAAAAGACAGCCCTGTGTTGAGAGATGACTGATTAATGATCAAGTCCAGT 225
 QY 121 GAACCCGACAGACAGTATATATATACATGTACAAAGACAGTGAAGTAAGAGAGTGGCT 180
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 DB 226 GAACCCGACAGACAGTATATATATACATGTACAAAGACAGTGAAGTAAGAGAGTGGCT 285
 QY 181 GTGACCCCTCTGTGAGAGATAGTAATTAATGATGACCCCTCTCTGTGAAGACAGATCAT 240
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 DB 286 GTGACCCCTCTGTGAGAGATAGTAATTAATGATGACCCCTCTCTGTGAAGACAGATCAT 345
 QY 241 TCCTTTGAGAAATGATGATCCAGTAAATATGATGATTAATGATTAATGATTAATGAT 300
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 DB 346 TCCTTTGAGAAATGATGATCCAGTAAATATGATGATTAATGATTAATGATTAATGAT 405
 QY 301 TTTCAGAAACGTGTCCAGGACACACAGATGAGTGTGATCTTCACTGTATGAAGA 360
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 DB 406 TTTCAGAAACGTGTCCAGGACACACAGATGAGTGTGATCTTCACTGTATGAAGA 465
 QY 361 CACTTCTTGTGCTGCAAAAGAGATGATGCTTTCAAACTCATTTGAAAAAAGAGAT 420
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 DB 466 CACTTCTTGTGCTGCAAAAGAGATGATGCTTTCAAACTCATTTGAAAAAAGAGAT 525
 QY 421 GAAATGGGATTAATCTGTAATGTTCACTCTCAGTAACCTTACATCAAAAGT 470
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 DB 526 GAAATGGGATTAATCTGTAAT---CTCTCACTAATCTTACATCAAAAG 572
 RESULT 11
 RN077776 722 bp mRNA ROD 31-JAN-1997
 LOCUS RN077776
 DEFINITION Rattus norvegicus interferon-gamma inducing factor precursor (IGIF)
 mRNA, complete cds.
 ACCESSION U77776
 VERSION U77776.1 GI:1809128
 KEYWORDS
 SOURCE Norway rat.
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

REFERENCE 1 (bases 1 to 722)
 AUTHORS Conti, B., Jahng, J.W., Tintli, C., Son, J.H. and Joh, T.H.
 TITLE Induction of interferon-gamma inducing factor in the adrenal cortex
 JOURNAL J. Biol. Chem. 272 (4), 2035-2037 (1997)
 MEDLINE 97152963
 REFERENCE 2 (bases 1 to 722)
 AUTHORS Conti, B., Jahng, J.W., Tintli, C., Son, J.H. and Joh, T.H.
 TITLE Direct Submission
 JOURNAL Submitted (08-NOV-1996) Molecular Neurobiology, Cornell University
 Medical College at Burke Research Institute, 785 Mamaronck Ave,
 White Plains, NY 10605, USA
 FEATURES
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 /strain="Sprague-Dawley"
 /db_xref="taxon:10116"
 /tissue_type="adrenal gland"
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 /db_xref="GI:1809129"
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 TAVIRSIINDOYLFVDKRNPPVPEMDIDRTANESQRLITVTKDSEVRLAVTTSV
 KDGKMSITLSCNKKIISFEENMPENIDIKSDLIFFQKRVGHNKMEFESSLYEGHFL
 ACQKEDDAFLVLRKRDENGDKSVMEFTLNHOS"
 BASE COUNT 252 a 138 c 140 g 192 t
 ORIGIN

Query Match 85.1%; Score 400.6; DB 12; Length 722;
 Best Local Similarity 91.8%; Pred. No. 9,7e-87;
 Matches 434; Conservative 1; Mismatches 35; Indels 3; Gaps 1;
 QY 2 ACTTTGGCCGACTTCACGTACACCCGAGTAATACGAAATATAATGACCAAGTTCTCT 61
 Db 110 ACTTTGGCAGACTTCACGTACACCCGAGTAATACGAGATATAATGACCAAGTTCTCT 169
 QY 62 TCGTTGACAAAAGA--CAGCCTGTGTTGAGATATGACTGATATTGATCAAAAGTCCA 118
 Db 170 TCGTTGACAAAAGAACCCTGTGTTGAGACATGCGATATGACCGAAGACCA 229
 QY 119 GTGAACCCGACGACGACTGATATATACATGTRACAAAGACAGTAAGAGGACTGG 178
 Db 230 ACGAATCCCGACGACGACTGATATATATATATACAAAGATAGTAAGAGGACTGG 289
 QY 179 CTGTGACCCCTCTGTGAAGATAGTAATGAATGTTACCTCTCTCTGTAAGACAAGTCA 238
 Db 290 CTGTGACCCCTATCTGTGAAGATAGTAAGATGTTACCTCTCTCTGTAAGACAAGTCA 349
 QY 239 TTTCTTTGAGGAATGATGATCACTGAAAAATATGATGATATACAAAGTATCTATAT 298
 Db 350 TTTCTTTGAGGAATGATGATCACTGAAAAATATGATGATATACAAAGTATCTATAT 409
 QY 299 TCTTTGAGGAACGTGTCCAGACGACACAAAGATGAGTTGAAATCTTCTACTGTATGAG 358
 Db 410 TCTTTGAGGAACGTGTCCAGACGACACAAAGATGAGTTGAAATCTTCTCTATGAG 469
 QY 359 GACACTTTCTGTGTCGCAAAAGAGATGATGCTTTCAAACTCATTCGAAAAAAGG 418
 Db 470 GACACTTTCTAGCTTGCCAAAAGAGATGATGCTTTCAAACTCGTTTGAAGAAAGAGG 529
 QY 419 ATGAAAAATGGGATTAATCTGTAATGTTCACTCTCACTAATCAATCAAGT 471
 Db 530 ATGAAAAATGGGATTAATCTGTAATGTTCACTCTCACTAATCAATCAAGT 582

RESULT 12
 RNAJB13

LOCUS RNAJB13 628 bp mRNA ROD 11-AUG-1998
 DEFINITION Rattus norvegicus mRNA for precursor interleukin 18 (IL-18),
 complete cds.
 ACCESSION AJ222813
 VERSION AJ222813.1 GI:3413501
 KEYWORDS IL-18 gene; interleukin.
 SOURCE Norway rat.
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
 Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 REFERENCE 1 (bases 1 to 628)
 AUTHORS Culhane, A.C., Hall, M.D., Rothwell, N.J. and Lushesli, G.N.
 TITLE Cloning of rat brain interleukin-18 cDNA
 JOURNAL Mol. Psych. 3, 362-366 (1998)
 REFERENCE 2 (bases 1 to 628)
 AUTHORS Culhane, A.C.
 TITLE Direct Submission
 JOURNAL Submitted (08-DEC-1997) Culhane A.C., University of Manchester,
 School of Biological Sciences, 1.124 Stopford Building, Manchester,
 Lancs, M13 9PT, UK
 FEATURES
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 /strain="Sprague dawley"
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 /sex="Male"
 /clone="rat IL-18"
 /tissue_type="whole brain"
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 factor; interleukin-1 gamma"
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 TAVIRSIINDOYLFVDKRNPPVPEMDIDRTANESQRLITVTKDSEVRLAVTTSV
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 ACQKEDDAFLVLRKRDENGDKSVMEFTLNHOS"
 109..582
 /gene="IL-18"
 /function="Induces interferon gamma, GM-CSF. Activates NK
 and cytotoxic T cells."
 /product="Precursor IL-18 is cleaved at Asp-His by
 caspase-1; mature IL-18"

mat_peptide
 BASE COUNT 216 a 120 c 126 g 166 t
 ORIGIN

Query Match 84.0%; Score 395.8; DB 12; Length 628;
 Best Local Similarity 91.1%; Pred. No. 1.4e-85;
 Matches 431; Conservative 1; Mismatches 38; Indels 3; Gaps 1;
 QY 2 ACTTTGGCCGACTTCACGTACACCCGAGTAATACGAAATATAATGACCAAGTTCTCT 61
 Db 110 ACTTTGGCAGACTTCACGTACACCCGAGTAATACGAGATATAATGACCAAGTTCTCT 169
 QY 62 TCGTTGACAAAAGA--CAGCCTGTGTTGAGATATGACTGATATTGATCAAAAGTCCA 118
 Db 170 TCGTTGACAAAAGAACCCTGTGTTGAGACATGCGATATGACCGAAGACCA 229
 QY 119 GTGAACCCGACGACGACTGATATATACATGTRACAAAGACAGTAAGAGGACTGG 178
 Db 230 ACGAATCCCGACGACGACTGATATATATATATACAAAGATAGTAAGAGGACTGG 289
 QY 179 CTGTGACCCCTCTGTGTAAGATAGTAATGAATGTTACCTCTCTGTAAGACAAGTCA 238
 Db 290 CTGTGACCCCTATCTGTGAAGATAGTAAGATGTTACCTCTCTGTAAGACAAGTCA 349

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|---------------------------|-------|---|-----------|------------|
| Query Match | 83.3% | Score 392.4 | DB 12 | Length 483 |
| Best Local Similarity | 91.2% | Pred. No. 9, 2e-85 | | |
| Matches 427; Conservative | 1; | Mismatches 37; | Indels 3; | Gaps 1 |
| QY | 1 | AACCTTTGGCCGACCTACACTGTACACCCGACGATATACGAGATATATATGACCAAGTCTC | 60 | |
| | | | | |
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| | | | | |
| Db | 7 | AACCTGGTGCGCTTCACTGTACACCCGACGATATGCGAGATATATATGACCAAGTCTC | 66 | |

/product="interferon-gamma inducing factor isoform alpha precursor"
/protein_id="AAC53010.1"
/db_xref="GI:1809131"
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KGARMSLTSCNNKIITSEKRVPGHNNMESESLYEGHFLACQEDDAFRLYLRKDEEN
GKSVAFLLTILNHS"

BASE COUNT 229 a 130 c 132 g 174 t
ORIGIN

Query Match 59.4%; Score 279.8; DB 12; Length 665;
Best Local Similarity 80.1%; Pred. No. 1.3e-57;
Matches 379; Conservative 1; Mismatches 33; Indels 60; Gaps 2;

QY 2 ACTTTGGCCGACTTCACCTGATACACCGCAGTAAATATGACCAAGTTCTCT 61
DB 110 ACTTTGGCCGACTTCACCTGATACACCGCAGTAAATATGACCAAGTTCTCT 169
QY 62 TCGTTGACAAAGA---CAGCCTGTGTTGAGATATGATGATGATGATGATGAT 118
DB 170 TCGTTGACAAAGAAGAACCCCGCTGTGTTGAGATATGATGATGATGATGATGAT 229
QY 119 GTGAAACCCGACGACGATGATATATATATATATATATATATATATATATATAT 178
DB 230 AGCAATCCGACGACGATGATATATATATATATATATATATATATATATATATAT 289
QY 179 CTGAGACCTCTCTGTAAGATATGTAAGATATGTAAGATATGTAAGATATGTAAG 238
DB 290 CTGAGACCTCTCTGTAAGATATGTAAGATATGTAAGATATGTAAGATATGTAAG 349
QY 239 TTTCCTTTGAGGAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 298
DB 350 TTTCCTTTG----- 358
QY 299 TCTTTGAGAAAGTGTTCAGGACACAGATGATGATGATGATGATGATGATGATGAT 358
DB 359 -----AGAAACGTGTCCAGGACACAAAGATGATGATGATGATGATGATGATGAT 412
QY 359 GACACTTTCTGCTGTCGCAAAAGAGATGATGATGATGATGATGATGATGATGATGAT 418
DB 413 GACACTTTCTGCTGTCGCAAAAGAGATGATGATGATGATGATGATGATGATGATGAT 472
QY 419 ATGAAATGGGATTAATCTGTAATGTTCACTCTCACTAATCAATCAAGT 471
DB 473 ATGAAATGGGATTAATCTGTAATGTTCACTCTCACTAATCAATCAAGT 525

RESULT 15
LOCUS ASIGIF 471 bp DNA SYN 08-NOV-1996
DEFINITION Artificial sequence DNA for cytokine interferon-gamma inducing factor (IGIF).
ACCESSION Y09278
VERSION Y09278.1 GI:1666283
KEYWORDS cytokine; interferon-gamma inducing factor (IGIF).
SOURCE synthetic construct.
ORGANISM artificial construct.
REFERENCE 1 (bases 1 to 471)
AUTHORS Schluesener, H.J.
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 471)
AUTHORS Schluesener, H.J.
TITLE Direct Submission
JOURNAL Submitted (21-OCT-1996) H.J. Schluesener, Inst.f. Hirnforschung,
Calwer Str. 3, D- 77076 Tübingen, FRG
FEATURES
location/Qualifiers
1..471
/organism="synthetic construct"
/db_xref="taxon:32650"
/codon_start=1
/transl_table=11
/product="mouse cytokine interferon-gamma inducing factor"
/protein_id="CAA70473.1"
/db_xref="GI:1666284"
/translation="NFGRLCTTAATVIRINDQVLFVDRKQPVFEDMTIDQASAPQPT
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KRVGHNMKEFESSLVEGHFLACQKEDDAFKLILKKKDEMGKSVAFLLNLHQS"

BASE COUNT 148 a 100 c 130 g 93 t
ORIGIN

Query Match 59.3%; Score 279.2; DB 13; Length 471;
Best Local Similarity 74.5%; Pred. No. 1.8e-57;
Matches 350; Conservative 1; Mismatches 119; Indels 0; Gaps 0;

QY 1 AACTTTGGCCGACTTCACCTGATACACCGCAGTAAATATGACCAAGTTCTC 60
DB 1 AACTTTGGCCGACTTCACCTGATACACCGCAGTAAATATGACCAAGTTCTC 60
QY 61 TCGTTGACAAAGAAGAGCTGTGTTGAGATATGATGATGATGATGATGATGATGAT 120
DB 61 TCGTTGATTAAGAGACAGCCGGTGTGTTGAGATATGATGATGATGATGATGATGAT 120
QY 121 GAACCCGACGACGATGATATATATATATATATATATATATATATATATATATAT 180
DB 121 GAACCCGACGACGATGATATATATATATATATATATATATATATATATATATAT 180
QY 181 GTGACCTCTCTGTAAGATATGTAAGATATGTAAGATATGTAAGATATGTAAGATAT 240
DB 181 GTGACCTCTCTGTAAGATATGTAAGATATGTAAGATATGTAAGATATGTAAGATAT 240
QY 241 TCTTTGAGGAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
DB 241 AGTTTGAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
QY 301 TTTGAGAAAGTGTTCAGGACACAGATGATGATGATGATGATGATGATGATGAT 360
DB 301 TTTGAGAAAGTGTTCAGGACACAGATGATGATGATGATGATGATGATGATGAT 360
QY 361 CACTTTCTGCTGTCGCAAAAGAGATGATGATGATGATGATGATGATGATGATGAT 420
DB 361 CACTTTCTGCTGTCGCAAAAGAGATGATGATGATGATGATGATGATGATGATGAT 420
QY 421 GAAATGGGATTAATCTGTAATGTTCACTCTCACTAATCAATCAAG 470
DB 421 GAAATGGGATTAATCTGTAATGTTCACTCTCACTAATCAATCAAG 470

Search completed: November 25, 2000, 05:10:56
Job time: 4666 sec